The Crum Road Bridge spans Israel Creek southeast of Walkersville, on Crum Road.

The bridge is an iron bowstring pony truss bridge in a single span of 62 feet in length and 15.8 in width. It was built circa 1875, probably by the King Iron Bridge Company of Cleveland, Ohio. The structure is set on two replacement reinforced cement abutments. The bridge has been bridge is almost identical to the Dutour Bridge, which was recently moved from its location across the Monocacy River to Catoctin Mountain National Park to be used as a foot bridge.

The Crum Road Bridge is one of only two iron bow string bridges still being used for traffic in Frederick County. The Crum Road Bridge differs from Bennies Hill Bridge in size and construction of its members. Both are tied arches with diagonals serving as bracing and verticals supporting the deck. The Crum Road Bridge is smaller in size than Bennies Hill Bridge.

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL FARK SERVICE

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NATIONAL REGISTER OF HISTORIC PLACES INVENTORY -- NOMINATION FORM

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AND/OR COMMON				
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7 DESCRIPTION

LEXCELLENT

__GOOD

__FAIR

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3011D11101

_DETERIORATED

__RUINS
__UNEXPOSED

__UNALTERED

X.ALTERED

CHECK ONE

X_ORIGINAL SITE

__MOVED DATE____

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

The Crum Road Bridge spans Israel Creek southeast of Walkersville, Frederick County, Maryland on Crum Road.

The bridge is an iron bowstring pony truss bridge in a single span of 62 feet in length and 15.8 feet in width. It was built circa 1875, probably by the King Iron Bridge Company of Cleveland, Ohio. The structure is set on two replacement reinforced cement abutments. The bridge has been recently refurbished with a new plank flooring and coat of paint. The bridge is almost identical to the Detour Bridge, which was recently moved from its location across the Monocacy River to Catoctin Mountain National Park to be used as a foot bridge.

The Crum Road Bridge is one of only two iron bow string bridges still being used for traffic in Frederick County. The Crum Road Bridge differs from Bennies Hill Bridge in size and construction of its members. Both are tied arches with diagonals serving as bracing and verticals supporting the deck. The Crum Road Bridge is smaller in size than Bennies Hill Bridge.

8 SIGNIFICANCE

—PREHISTORIC —1400-1499 —1500-1599 —1600-1699 —1700-1799 X_1800-1899 —1900-	—ARCHEOLOGY-PREHISTORIC —ARCHEOLOGY-HISTORIC —AGRICULTURE —ARCHITECTURE —APT —COMMERCE —COMMUNICATIONS	COMMUNITY PLANNING CONSERVATION ECONOMICS EDUCATION XENGINEERING EXPLORATION/SETTLEMENT INDUSTRY INVENTION	LANDSCAPE ARCHITECTURE LAW LITERATURE MILITARY MUSIC PHILOSOPHY POLITICS/GOVERNMENT	—RELIGION —SCIENCE —SCULPTURE —SOCIAL/HUMANITARIAN —THEATER X-TRANSPORTATION X-OTHER (SPECIFY) industrial
SPECIFIC DATE				

STATEMENT OF SIGNIFICANCE

The original patent for the bow string arch truss bridge was first registered in 1840 and was a popular structure until the late 19th century.

However, the Crum Road Bridge may be an example of Zenas King's patented Tubular Arch Bridge, a very popular design of the King Iron Bridge and Manufacturing Company, who probably constructed this bridge in the 1870's. Even in the heyday of iron truss bridges, bow string arch bridges were a rarity as evidenced by this quote from James Waddell's The Designing of Ordinary Iron Highway Bridges in reference to Pratt & Whipple Trusses: "at least ninety percent of all American iron highway bridges are built on

There are some forty iron truss bridges still in existence in Frederick County, Maryland. But with increasing development in the area many of these will have to be destroyed because of additional tonnage requirements demanded of highway structures. Since iron truss bridges portray an important step in bridge engineering design it is imperative that some examples such as the Crum Road Bridge remain in the American land-scape.

¹ James A. L. Waddell, <u>The Designing of Ordinary Iron Highway Bridges</u> (New York: John Wiley & Sons, Inc., 1891-5th ed.), p. IV.

SEE CONTINUATION SHEET #1.

10 GEOGRAPHICAL	DATA			
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Crum Road Bridge Frederick County CONTINUATION SHEET Marvland ITEM N

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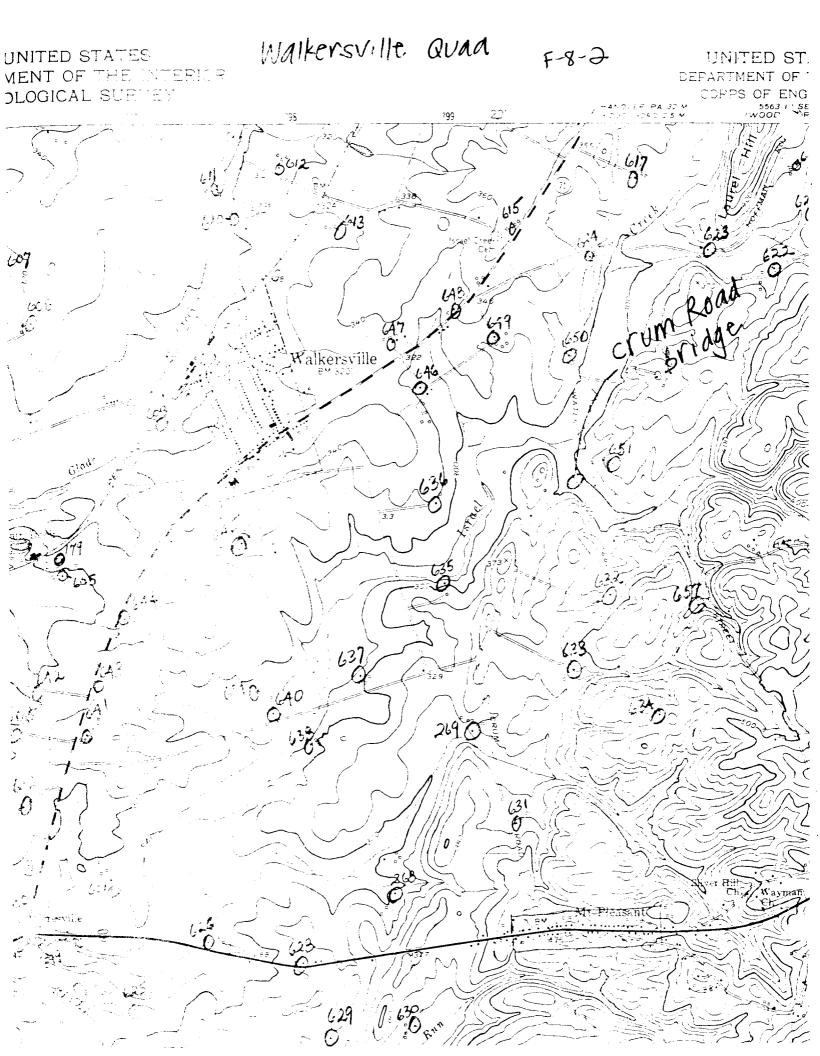
MAJOR BIBLIOGRAPHICAL REFERENCES

Deibler, Dan. <u>Metal Truss Bridges in Virginia, 1865-1932.</u> Vol. I. Virginia Highway and Transportation Research Council, 1975.

Jackson, Donald. "Railroads, truss bridges and the rise of the civil engineer." Sivil Engineering (October, 1977), 97-101.

Meeting minutes of the Frederick County Commissioners, 1882-1889.

The Frederick Examiner, Wednesday, September 13, 1854.





CEW 8/18 F-8-2 Crum Rol Bridge Crum Rol over ISRAel's Creek North Approach